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UNITED STATES DEPARTMENT OF AGRICULTURE  
Soil Conservation Service

Ross Building  
209 S. W. Fifth Ave.  
Portland 4, Oregon  
April 8, 1955

To: All SCS Offices, State of Oregon

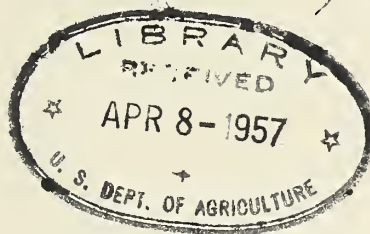
From: Harold E. Tower, State Conservationist, SCS,  
Portland, Oregon

Subject: REPORT - Soil Survey Conference, Portland, Oregon

The attached was developed as a report of the Annual State Plan of Soil Survey Operations Conference held at Portland, Oregon, January 25, 1955.

The report covers the status of all soil survey work in Oregon including work completed, in progress, and planned for 1955. In addition, it contains a brief resume of needs and use of soil survey information by State and Federal agencies and other organizations.

*Harold E. Tower*



Attachment

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OREGON SOIL SURVEY PLANNING CONFERENCE  
Portland, Oregon, January 25, 1955

I INVENTORY OF SOIL SURVEYS

A. Large Scale Detailed Surveys

1. Recent Surveys; field work on aerial photographs; field mapping scale 1:20,000 (3.17 inches to mile) or larger; field sheets or copies available for farm or ranch planning; soil boundaries, including those of slope and erosion phases, well located with respect to field boundaries and other reference points.

a. Maps published

Deschutes area, Deschutes and Jefferson Counties.

Total acres: 336,795. copies available Oregon State College

b. Field mapping completed, scheduled for publication:

1. Prineville Area, Crook County. Total acreage 179,365. Field sheets may be consulted at Soil Conservation Service office, Court House, Prineville.
2. Douglas Area, Douglas County. Total acreage 505,920. Copies of field sheets at Oregon State College.

c. Field mapping completed

1. Necanicum SCD, Clatsop County, total acreage 4,664.
2. Warrenton Dune SCD, Clatsop County, total acreage 5,468.

2. Recent or fairly recent surveys that differ from those of group 1 in one or more of the following characteristics: scale of field mapping smaller than 1:20,000; maps on photographic base not available for reference by farm planners; or some supplementary information, either additional mapping separations or greater precision of boundaries, is needed for interpretation in relation to usual farm or ranch planning needs.

a. Maps published

Baker Area, Baker County, total acreage 324,800. Copies available Oregon State College.



I A (Cont'd.)

3. Standard soil surveys, field work in progress, scheduled for publication; same specifications as group 1.

a. In progress

1. Clatskanie Soil Conservation District, Columbia County  
Total acreage 212,320; acreage surveyed to date 107,097; soil conservation surveys to be converted to standard soil survey 80,999; standard soil surveys, 26,096; acreage to be surveyed this period 30,000; Man-years required 1.0. Field sheets may be consulted Soil Conservation Service office, Clatskanie, Oregon.
2. Curry County Soil Conservation District, Curry County  
Total acreage 1,038,080; acreage surveyed to date 106,740; acreage to be surveyed this period 65,000; man-years required 1.0. Field sheets may be consulted Soil Conservation Service office, Gold Beach, Oregon.
3. Hood River Soil Conservation District, Hood River County  
Total acreage 323,200; acreage surveyed to date 402; acreage to be surveyed this period 10,000; man-years required 0.2. Field sheets may be consulted Soil Conservation Service office, Hood River, Oregon.
4. West Central Lane Soil Conservation District, Lane County  
Total acreage 195,200; acreage surveyed to date 50,580; acreage to be surveyed this period 50,000; man-years required 1.0. Field sheets may be consulted Soil Conservation Service office Eugene, Oregon.
5. Langell Valley Soil Conservation District, Klamath County  
Total acreage 849,755; acreage surveyed to date 117,781; Soil Conservation Survey to be converted to standard soil survey 69,963; standard soil survey 47,818; acreage to be surveyed this period, standard soil survey 35,000, (SCS and Bureau of Indian Affairs); Soil Conservation Surveys to be converted to standard soil survey 50,000; man-years required 1.5. Field sheets may be consulted Soil Conservation Service office Klamath Falls and at the Indian Service office Klamath Agency.
6. Malheur Soil Conservation District, Malheur County  
Total acreage 1,719,400; acreage surveyed to date, Soil Conservation Survey to be converted to standard soil survey 18,080; acreage to be surveyed this period 50,600; man-years required 1.0; Field sheets may be consulted Soil Conservation Service office Vale, Oregon.



- a. 7. Mt. Angel Soil Conservation District, Marion County  
Total acreage 32,960; acreage surveyed to date 27,600;  
acreage to be surveyed this period 5,360; man-years  
required 0.3. Field sheets may be consulted at the  
Soil Conservation Service office Mt. Angel, Oregon.
8. Poe Valley Soil Conservation District, Klamath County  
Total acreage 2,249,462; acreage surveyed to date  
127,084; Soil Conservation Surveys to be converted to  
Standard Soil Survey 104,774; standard soil survey 22,310;  
acreage to be surveyed this period, Standard Soil Survey  
150,000 (SCS and Bureau of Indian Affairs); man years  
required 4.0. Field sheets may be consulted at the  
Soil Conservation Service office Klamath Falls and at the  
Indian Service office Klamath Agency, Oregon.
9. Rogue Soil Conservation District, Jackson County  
Total acreage 378,240; acreage surveyed to date 31,640;  
acreage to be surveyed this period 40,000; man-years  
required 1.0. Field sheets may be consulted at the  
Soil Conservation Service office Medford, Oregon.
10. Sams Valley - Beagle Soil Conservation District, Jackson  
County. Total acreage 886,400; acreage surveyed to date  
63,890; Soil Conservation Survey to be converted to  
standard soil survey 54,645; standard soil survey 9,245;  
acreage to be surveyed this period 20,000; man years  
required 0.50. Field sheets may be consulted at the Soil  
Conservation Service office Medford, Oregon.
11. Scappoose Soil Conservation District, Columbia County  
Total acreage 196,850; acreage surveyed to date 87,370;  
soil conservation surveys to be converted to standard  
soil survey 57,374; standard soil survey 30,000; acreage  
to be surveyed this period 20,000; man-years required 1.0.  
Field sheets may be consulted at the Soil Conservation  
Service office at St. Helens, Oregon.
12. Southern Umatilla Soil Conservation District, Umatilla  
County. Total acreage 1,034,240; acreage surveyed to  
date 83,616; acreage to be surveyed this period 70,000;  
man-years required 1.5. Field sheets may be consulted  
at the Soil Conservation Service office at Pendleton,  
Oregon.
13. Umpqua Soil Conservation District, Douglas County.  
Total acreage 486,000; acreage surveyed to date 61,440;  
acreage to be surveyed this period 40,000; man-years  
required 1.0. Field sheets may be consulted at the  
Soil Conservation Service office at Reedsport, Oregon.





I A 3 (Cont'd.)

a 14. Yamhill County Soil Conservation District, Yamhill County  
Total acreage 453,760; acreage surveyed to date 48,508;  
acreage to be surveyed this period 50,000; man-years  
required 2.0. Field sheets may be consulted at the  
Soil Conservation Service office at McMinnville, Oregon.

b. To be Initiated - Standard Soil Surveys to be initiated

1. East Linn Soil Conservation District, Linn County  
Total acreage 51,840; acreage surveyed to date - none;  
acreage to be surveyed this period 15,000; man-years  
required 0.50.
2. Upper Willamette Soil Conservation District, Lane County  
Total acreage 2,057,730; acreage surveyed to date - none;  
acreage to be surveyed this period 30,000; man-years  
required 1.0.
3. North Douglas Soil Conservation District, Douglas County  
Total acreage 568,320; acreage surveyed to date 172,800  
(Douglas area); acreage to be surveyed this period 20,000;  
man-years required 0.75.

c. Other

Soil Survey - City of Corvallis Watershed - Oregon Experiment  
Station

4. Surveys in progress or completed, made for use in farm or ranch  
planning.

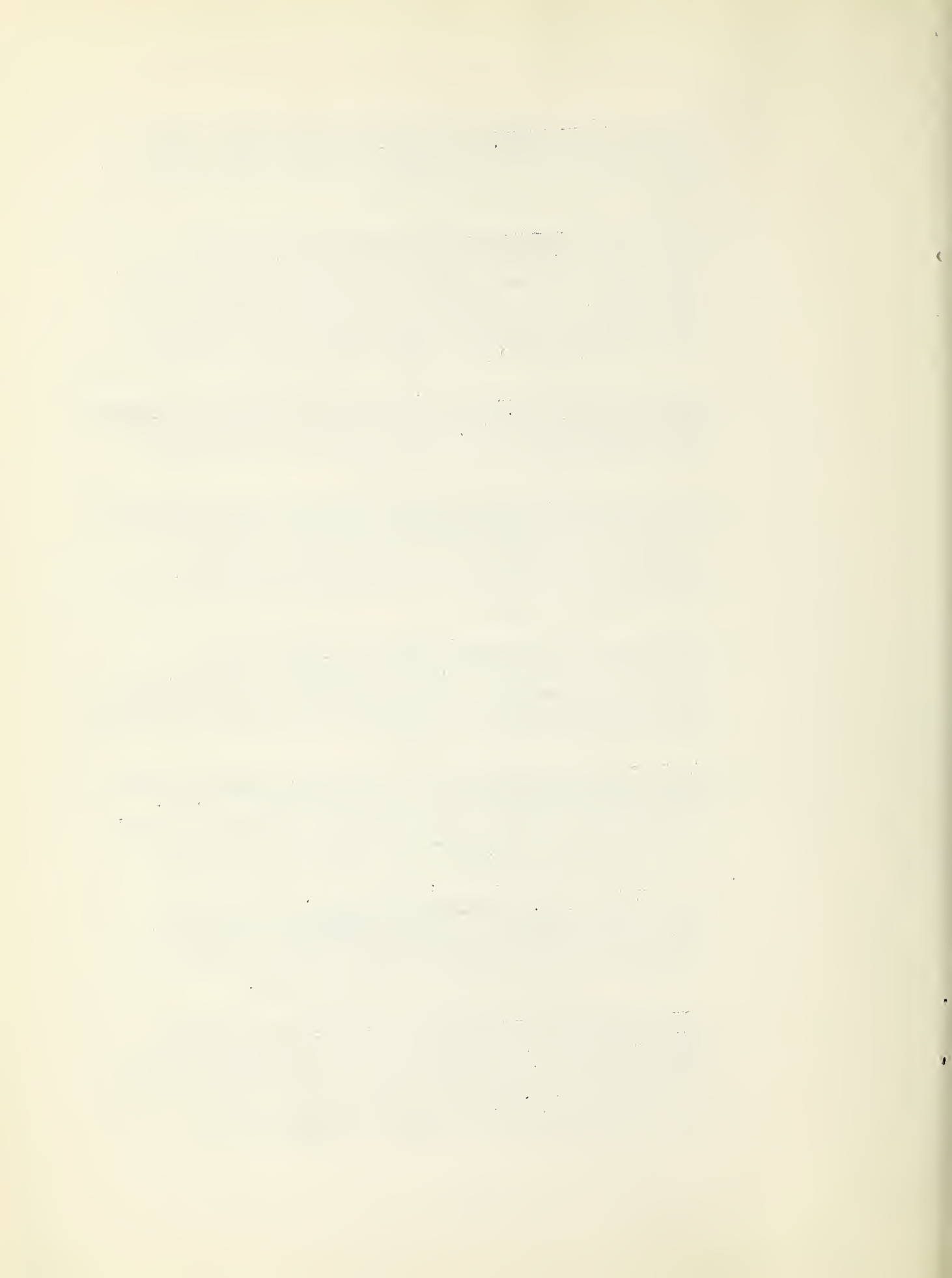
a. Soil Conservation Surveys to be converted to standard soil  
surveys

1. Elgin Soil Conservation District, Union County.  
Total acreage 171,460; acreage surveyed to date 61,290.  
Field sheets may be consulted at the Soil Conservation  
Service office Elgin, Oregon
2. Fort Rock - Silver Lake Soil Conservation District, Lake  
County. Total acreage 1,854,720; acreage surveyed to  
date 264,480; acreage to be surveyed this period 45,000;  
man-years required 0.3. Field sheets may be consulted at  
the Soil Conservation Service office Silver Lake, Oregon.
3. Illinois Valley Soil Conservation District, Josephine  
County. Total acreage 510,080; acreage surveyed to date  
123,108. Field sheets may be consulted at the Soil Con-  
servation Service office Grants Pass, Oregon.





- a. 4. Josephine Soil Conservation District, Josephine County  
Total acreage 529,920; acreage surveyed to date 153,753.  
Field sheets may be consulted at the Soil Conservation Service office Grants Pass, Oregon.
5. Klamath Soil Conservation District, Klamath County  
Total acreage 350,000; acreage surveyed to date 20,400; acreage to be surveyed this period 22,000; man-years required 0.50. To be combined with Langell Valley and Poe Valley SCD's for conversion of present soil conservation surveys and publication. Field sheets may be consulted at the Soil Conservation Service office Klamath Falls, Oregon.
6. Linn-Lane Soil Conservation District, Linn and Lane Counties  
Total acreage 108,310; acreage surveyed to date 108,310.  
Field sheets may be consulted at the Soil Conservation Service office Harrisburg, Oregon.
7. East Multnomah Soil Conservation District, Multnomah County  
Total acreage 211,360; acreage surveyed to date 91,359; acreage to be surveyed this period 20,000. This is dependent upon assignment of personnel to the area. Field sheets may be consulted at the Soil Conservation Service office Gresham, Oregon.
8. Santiam Soil Conservation District, Marion County  
Total acreage 139,000; acreage surveyed to date 140,310; acreage to be surveyed this period 25,000; man-years required 1.0. Field sheets may be consulted at the Soil Conservation Service office Stayton, Oregon.
9. Sauvie Island Soil Conservation District, Multnomah County  
Total acreage 19,236; acreage surveyed to date 17,736.  
This district will be combined with East Multnomah SCD for conversion and publication. Field sheets may be consulted at the Soil Conservation Service office Sauvie Island.
10. Silver Creek Soil Conservation District, Marion County  
Total acreage 206,300; acreage surveyed to date 75,850; acreage to be surveyed this period 65,000; man-years required 1.7. Field sheets may be consulted at the Soil Conservation Service office Silverton, Oregon.
11. North Tillamook Soil Conservation District, Tillamook County. Total acreage 191,180; acreage surveyed to date 90,194; acreage to be surveyed this period 23,000; this is dependent upon assignment of a soils man to the area; man-years required 0.50. Field sheets may be consulted at the Soil Conservation Service office Tillamook, Oregon.



- a 12. South Tillamook Soil Conservation District, Tillamook County. Total acreage 222,420; acreage surveyed to date 55,234; acreage to be surveyed this period 21,500; this is dependent upon assignment of a soils man to the area; man-years required 0.50. Field sheets may be consulted at the Soil Conservation Service office Cloverdale, Oregon.
13. Central Wasco Soil Conservation District, Wasco County. Total acreage 347,500; acreage surveyed to date 252,673; acreage to be surveyed this period 42,000; man-years required 0.50. Field sheets may be consulted at the Soil Conservation Service office Dufur, Oregon.
14. North Wasco Soil Conservation District, Wasco County Total acreage 107,500; acreage surveyed to date 78,010; acreage to be surveyed this period 21,648; man-years required 0.30. Field sheets may be consulted at the Soil Conservation Service office The Dalles, Oregon.
15. Southern Wasco Soil Conservation District, Wasco County Total acreage 1,088,040; acreage surveyed to date 414,395; Standard Soil Survey 117,803; and Soil Conservation Survey 296,592; acreage to be surveyed this period 50,000; man-years required 0.20. Field sheets may be consulted at the Soil Conservation Service office Maupin, Oregon.

b. Soil Conservation Surveys

1. Baker Valley Soil Conservation District, Baker County Total acreage 445,360; acreage surveyed to date 143,926; acreage to be surveyed this period 22,000; man-years required 0.4. Field sheets may be consulted at the Soil Conservation Service office Baker, Oregon.
2. Boardman Soil Conservation District, Morrow County Total acreage 68,900; acreage surveyed to date 36,696. Field sheets may be consulted at the Soil Conservation Service office Hermiston, Oregon.
3. Burnt River Soil Conservation District, Baker County  
Total acreage 865,000; acreage surveyed to date 119,260; acreage to be surveyed this period 51,500; man-years required 0.5. Field sheets may be consulted at the Soil Conservation Service office Baker, Oregon.
4. Eagle Valley Soil Conservation District, Baker County Total acreage 318,400; acreage surveyed to date 24,300; acreage to be surveyed this period 20,160; man-years required 0.20. Field sheets may be consulted at the Soil Conservation Service office Richland, Oregon.



- b 5. Gilliam County Soil Conservation District, Gilliam County  
Total acreage 775,040; acreage surveyed to date 546,369;  
acreage to be surveyed this period 40,000; man-years re-  
quired 0.50. Field sheets may be consulted at the Soil  
Conservation Service office Condon, Oregon
6. Heppner Soil Conservation District, Morrow County  
Total acreage 1,330,660; acreage surveyed to date 720,019;  
acreage to be surveyed this period 50,000; man-years requir-  
ed 1.0. Field sheets may be consulted at the Soil Con-  
servation Service office Heppner, Oregon.
7. Keating Soil Conservation District, Baker County  
Total acreage 391,080; acreage surveyed to date 242,915;  
Standard Soil Survey 215,762; Soil Conservation Surveys  
27,153; acreage to be surveyed this period 4,000; man-years  
required 0.10. Field sheets may be consulted at the Soil  
Conservation Service office Baker, Oregon.
8. Lakeview Soil Conservation District, Lake County  
Total acreage 883,840; acreage surveyed to date 147,744;  
acreage to be surveyed this period 20,000; man-years required  
0.30. Field sheets may be consulted at the Soil Conservation  
Service office Lakeview, Oregon.
9. Midstate Soil Conservation District, Deschutes County  
Total acreage 1,966,880; acreage surveyed to date 546,207  
(includes 171,320 acres Deschutes Area Soil Survey); Soil  
Conservation Survey 374,887; acreage to be surveyed this  
period 85,000; man-years required 0.50. Field sheets may  
be consulted at the Soil Conservation Service office  
Redmond, Oregon.
10. Monument Soil Conservation District, Grant County  
Total acreage 862,220; acreage surveyed to date 454,195;  
Standard soil survey 186,755, and soil conservation survey  
267,440. Field sheets may be consulted at the Soil Con-  
servation Service office Canyon City, Oregon.
11. Sherman County Soil Conservation District, Sherman County  
Total acreage 531,200; acreage surveyed to date 366,570;  
acreage to be surveyed this period 33,580; man-years  
required 0.50. Field sheets may be consulted at the Soil  
Conservation Service office Moro, Oregon.
12. Siuslaw Soil Conservation District, Lane County  
Total acreage 206,300; acreage surveyed to date 83,989;  
acreage to be surveyed this period 20,000; man-years  
required 0.5. Field sheets may be consulted at the  
Soil Conservation Service office Florence, Oregon.





- b 13. West Umatilla Soil Conservation District, Umatilla County  
Total acreage 214,500; acreage surveyed to date 145,165.  
Field sheets may be consulted at the Soil Conservation  
Service office Hermiston, Oregon
14. First Union County Soil Conservation District, Union  
County. Total acreage 996,140; acreage surveyed to date  
213,713; acreage to be surveyed this period 30,000;  
man-years required 1.0. Field sheets may be consulted  
at the Soil Conservation Service office La Grande, Oregon.
15. Wallowa Soil Conservation District, Wallowa County  
Total acreage 2,033,920; acreage surveyed to date  
242,540; acreage to be surveyed this period 50,000;  
man-years required 1.0. Field sheets may be consulted  
at the Soil Conservation Service office at Enterprise,  
Oregon.





# SUMMARY OF SOIL SURVEYS IN PROGRESS

Survey Area	Total Acres	Acres Surveyed to Date			Goals 1955
		Total	Soil Conservation	Standard	
STANDARD SOIL SURVEYS					
Clatskanie SCD	212,320	107,097	80,999	26,096	30,000
Curry Co. SCD	1,038,080	106,740		106,740	65,000
Hood River SCD	323,200	402		402	10,000
West Central Lane	195,200	50,580		50,580	50,000
Langell Valley	849,755	117,781	69,963	47,818	35,000
Malheur	1,719,400	18,080	18,080		50,600
Mt. Angel	32,960	27,600		27,600	5,360
Poe Valley	2,249,462	127,084	104,774	22,310	150,000
Rogue	378,240	31,640		31,640	40,000
Sams Valley-Beagle	886,400	63,890	54,645	9,245	20,000
Scappoose	196,850	87,370	57,374	30,000	20,000
Southern Umatilla	1,034,240	83,616		83,616	70,000
Umpqua	486,000	61,440		61,440	40,000
Yamhill Co.	453,760	48,508		48,508	50,000
STANDARD SOIL SURVEYS TO BE INITIATED					
East Linn	51,840				15,000
Upper Willamette	2,057,730				30,000
North Douglas	568,320	172,800		172,800	20,000
SOIL CONSERVATION SURVEYS TO BE CONVERTED TO STANDARD SOIL SURVEYS					
Elgin	171,460	61,290	61,290		
Fort Rock-Silver Lake	1,854,720	264,480	264,480		45,000



SUMMARY OF SOIL SURVEYS IN PROGRESS (Cont'd.)

Survey Area	Total Acres	Acres Surveyed To Date			Goals 1955
		Total	Soil Conservation	Standard	
SOIL CONSERVATION SURVEYS TO BE CONVERTED TO STANDARD SOIL SURVEYS (Cont'd.)					
Klamath	350,000	20,400	20,400		22,000
Linn-Lane	108,310	108,310	108,310		
East Multnomah	211,360	91,359	91,359		20,000
Santiam	439,000	140,310	140,310		25,000
Sauvie Island	19,236	17,736	17,736		
Silver Creek	206,300	75,850	75,850		65,000
North Tillamook	491,180	90,194	90,194		23,000
South Tillamook	222,420	55,234	55,234		21,500
Central Wasco	347,500	252,673	252,673		42,000
North Wasco	107,500	78,010	78,010		21,648
Southern Wasco	1,088,040	414,395	296,592	117,803	50,000
SOIL CONSERVATION SURVEYS					
Baker Valley	445,360	143,926	143,926		22,000
Boardman	68,900	36,696	36,696		
Burnt River	865,000	119,260	119,260		51,500
Eagle Valley	318,400	24,300	24,300		20,160
Gilliam Co.	775,040	546,369	546,369		40,000
Heppner	1,330,660	720,019	720,019		50,000
Keating	391,080	242,915	27,153	215,762	4,000
Lakeview	883,840	147,744	147,744		20,000
Midstate	1,966,880	546,207	374,887	171,320	85,000
Monument	862,220	454,195	267,440	186,755	



SUMMARY OF SOIL SURVEYS IN PROGRESS (Cont'd.)

Survey Area	:	Total Acres	:	Acres Surveyed to Date			:	Goals 1955
				Total	Soil Conservation	Standard		
<hr/>								
SOIL CONSERVATION SURVEYS (Cont'd.)	:	:	:	:	:	:	:	:
Sherman Co.	:	531,200	:	366,570	:	366,570	:	33,580
Siuslaw	:	206,300	:	83,989	:	83,989	:	20,000
West Umatilla	:	214,500	:	145,165	:	145,165	:	:
First Union Co.	:	996,140	:	213,713	:	213,713	:	30,000
Wallowa	:	2,033,920	:	242,540	:	242,540	:	50,000
	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:
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	:	:	:	:	:	:	:	:



# I INVENTORY OF SOIL SURVEYS (Cont'd.)

## B. Older Detailed Surveys (mostly published at one inch to the mile)

1. Published surveys, soil names mostly in accord with recent correlations, but scale smaller or soil boundaries less precise than required for group A-2.
  - a. Astoria Area, Clatsop County  
Total acreage 147,200. Copies available from the Oregon State College.
  - b. Umatilla Area, Umatilla County  
Total acreage 1,198,080. Copies available from the Oregon State College.
2. Published surveys, mostly surveyed before 1930, soil boundaries somewhat generalized or soil classification not entirely in accord with present correlation, or both.

Benton County, acreage surveyed 414,720.

Clackamas County, acreage surveyed 623,360.

Columbia County, acreage surveyed 413,440.

Eugene Area, Lane County, acreage surveyed 830,720.

Grande Ronde Valley Area, Union County, acreage surveyed 184,960

Josephine County, acreage surveyed 489,600.

Linn County, acreage surveyed 977,920.

Marion County, acreage surveyed 542,080.

Multnomah County, acreage surveyed 209,920.

Polk County, acreage surveyed 476,160.

Washington County, acreage surveyed 467,840.

Yamhill County, acreage surveyed 445,440.

Copies of the above surveys may be consulted at the Soils Department, Oregon State College, State Office of the Soil Conservation Service, Portland, Oregon, County Agents' office and Soil Conservation Service offices in the respective counties.





I B (Cont'd.)

3. Rather general soil maps with some significant boundaries accurately located.

Hood River and White Salmon River Area (Oregon and Washington), acreage surveyed 72,000.

Klamath Reclamation Project, acreage surveyed 159,360.

Marshfield Area, acreage surveyed 627,200.

Medford Area, acreage surveyed 348,160.

Copies of the above surveys may be consulted at the Oregon State College and the State Office of the Soil Conservation Service at Portland, Oregon.



## II OTHER ACTIVITIES OF THE SOIL SURVEY PROGRAM

### A. Areas in which field mapping will be completed.

1. Prineville Area, Crook County. Field mapping completed in December, 1954.
2. Mt. Angel Soil Conservation District, Marion County. Field mapping to be completed in May, 1955.

### B. Soil Survey Reports to be written

1. Douglas Area, Douglas County.
2. Prineville Area, Crook County.
3. Mt. Angel Soil Conservation District, Marion County.  
To be combined with Santiam and Silver Creek SCD's at later date for soil survey report and publication.

### C. Descriptive Legends.

<u>District</u>	<u>Completion for Current Survey</u>	<u>Older Surveys</u>
1. Clatskanie	March	not scheduled
2. Scappoose	July	" "
3. North Tillamook	scheduled for this year	
4. South Tillamook	" " " "	
5. East Multnomah	" " " "	
6. Sauvie Island	to be done in conjunction with East Multnomah	
7. Yamhill	March	none
8. Linn - Lane	none	scheduled this year
9. East Linn	March	none
10. Siuslaw	March	not scheduled.
11. West Central Lane	March	none
12. Upper Willamette	July	"
13. Santiam	March	scheduled to begin this year.
14. Silver Creek	"	scheduled to begin this year



II C (Cont'd.)

<u>District</u>	<u>Completion for Current Survey</u>	<u>Older Surveys</u>
15. Mt. Angel	March	none
16. Curry County	April	"
17. Sams Valley - Beagle	"	not scheduled
18. Rogue	"	none
19. Josephine	none	scheduled this year
20. Illinois Valley	"	" " "
21. Umpqua	September	none
22. North Douglas	"	"
23. Sherman Co.	"	September
24. Gilliam Co.	"	"
25. West Umatilla	none	not scheduled
26. Southern Umatilla	April	none
27. Boardman	none	not scheduled
28. Heppner	December	December
29. North Wasco	in progress	in progress
30. Central Wasco	" "	" "
31. Southern Wasco	" "	" "
32. Hood River	July	none
33. Baker Valley	in progress	not scheduled
34. Burnt River	" "	" "
35. Eagle Valley	" "	" "

2



## II C (Cont'd.)

<u>District</u>	<u>Completion for Current Survey</u>	<u>Older Surveys</u>
36. Keating	not scheduled	
37. Monument		part completed
38. First Union County	not scheduled	not scheduled
39. Elgin	completed	none
40. Wallowa	in progress	not scheduled
41. Malheur	February	none
42. Poe Valley	July	not scheduled
43. Langell Valley	"	" "
44. Lakeview	in progress	" "
45. Klamath	July	" "
46. Midstate	in progress	part completed
47. Fort Rock - Silver Lake	" "	

### D. Soil Survey Interpretation

The Soil Conservation Service and Oregon Experiment Station are at present exploring possible ways, procedures and methods to plan work to obtain information on crop yields at specified levels of management for major soils in the state.

### E. Soil Survey Correlation Work planned with Correlation Staff

1. Final field correlation Prineville area.
2. Field correlation Douglas area.
3. Field review and soil correlation work Klamath, Langell Valley and Poe Valley SCD's.
4. Field review and soil correlation work Malheur SCD.
5. Soil correlation work forest lands, Columbia County.
6. Soil correlation work range lands Wasco County.





## II Other Activities of the Soil Survey Program (Cont'd.)

### F. Soil Survey Investigations

1. Genesis and morphology Cascade and Powell soils and their drainage associates. Physical, chemical and mineralogical analysis - Beltsville Laboratory, work largely completed.
2. Morrow, Condon and Walla Walla soil series physical and chemical characterization, source of parent material, development, and moisture relations. Graduate Thesis work Oregon State College by John Douglass.
3. Classification, genesis and morphology of Aiken soil series. Physical and chemical characterization of Aiken series at selected locations of Western Oregon and California.
4. Characterization of soils - Prineville area.
  - a. Ruckles - Gem - Underwood series from basalt Searles\*-Elmore-Steins\* series from rhyolite. Sequences paired great soil groups, brown Chestnut and Brown Forest respectively.
  - b. Prineville, Madras, and Lamonta - brown soils ranging weakly developed B in prineville to strongly developed B in Lamonta - weakly developed iron-silica-lime pan in Prineville, and strongly developed pans in Madras and Lamonta soils.
  - c. Steins\*, Swartz\*, Umapine?, and Stanfield?. Steins probably Solonetz, Swartz solodized - Solonetz, Stanfield alkali soil with pan, and Umapine alkali soil.

Laboratory work on a, b, c, to be done by Soil Conservation Service.
  - d. Laboratory work on Slaten\*, Fisher\*, Glasgow? and possibly Conal, Era and Madras by Oregon State College.
5. Fort Rock - Silver Lake SCD  
Physical and chemical characterization of selected soils to guide mapping and for interpretations as to suitability for irrigation and treatment of alkalinity and salinity.
6. Study of different kinds of soil pans under consideration by Oregon Experiment Station.
7. Mechanical analysis for sites of texture standards for use of soil scientists and others - SCS Riverside Laboratory.

\* New names tentative

? Soils not definitely correlated these series



## II F (Cont'd.)

8. Characterization of soils from management standpoint.
  - a. Identification of soils on experimental trial sites, laboratory determinations and yield potentials information for various soils. Field trial and laboratory work by Oregon State College. Identification of soils by Soil Conservation Service.
  - b. Soil test of farmer samples by Oregon State College. Summarized results can be used to characterize broad groups of soils.
9. Laboratory investigations to supplement forest soil-site correlations, Oregon State College.
  - a. Calcium-Magnesium status of the Kirby and Josephine soils, Josephine County. Greenhouse studies with Cornutt soil derived from peridotite rock. Preliminary to more detailed investigations.
  - b. Physical and chemical characterization of forest soils in Columbia, Clatsop and Tillamook Counties. Cooperation with State Board of Forestry.
10. Soil moisture studies on pumice soils. Proposed project Oregon State College. Will include laboratory investigation of specific gravity, bulk density, mechanical analyses, soil moisture tension characteristics, and some seasonal soil moisture sampling. Some preliminary work completed in Fort Klamath area.
11. Characterization of forest soils, Oregon State College. General project to be carried in conjunction with other projects. At present includes characterizations of Climax, Dixonville, and Cove soils on McDonald Forest in relation to forest management.
12. Laboratory investigation of the erodability of soils, City of Corvallis Watershed to supplement soil survey of this area. Oregon State College.
13. Forest soil-site correlation. Soil Conservation Service has forest soil-site correlation work in progress in Soil Conservation Districts of Western Oregon, Josephine County - Southern Oregon, Deschutes and Klamath Counties in Eastern Oregon.
14. Soil range site-Soil Conservation Service  
Vegetation-soil relationships are at present being studied over broad areas of eastern Oregon. This information is being further refined in detail for mapping minimum units of range site types and soils for purposes of management and range improvement.



## II F (Cont'd.)

### 14 (Cont'd.)

Oregon State College is doing more detailed research in the Columbia Basin and Squaw Butte areas on vegetation - soil relationships. This involves intense examinations of both vegetation and soil characteristics.

## G. Training of Soil Scientists

1. Training Conference writing of soil descriptions, May, 1954 at Corvallis and Pendleton, Oregon, included all SCS Soil Scientists, range and forestry specialists, area conservationists, soil survey personnel, Bureau of Indian Affairs, and personnel from Oregon State College.
2. Training Conference, Soil Survey Operations, Bend, Oregon, March 3 and 4, 1955, included all SCS and Bureau of Indian Affairs, Soil Scientists, Oregon.
3. Some transfers of soil scientists contemplated within the state to broaden experience and meet Service soil survey needs.
4. Consideration being given to develop plans for short period exchange (90 to 120 days) summer and winter with other states (Arizona).
5. Plans being developed for summer employment of student trainees by SCS.
6. In addition to above special training activities, a continuous training program for individuals is carried on by specific assignment where need is evident.

## H. Coordination of Soils Work between States

It is proposed that an SCS soils staff representative participate in correlation work in Walla Walla County, Goldendale SCD, and Cowlitz and Grays Harbor Counties, Washington.

## I. Availability of Soil Survey Information

Many of the older soil survey publications are out of print. Copies of out-of-print reports can be consulted generally at the Soils Department, Oregon State College; State Office, Soil Conservation Service, Portland; County Agents' offices in respective counties; and local Soil Conservation Service offices.

Field maps of current soil surveys can be consulted for needed information at local Soil Conservation Service offices.





### III REPORTS ON NEEDS AND USES OF SOIL SURVEY INFORMATION

Oregon State College and Soil Conservation Service Cooperative report is covered in the preceding portion of this report.

#### State Engineer's Office - Geo. V. Naderman

Have used available soil survey information to considerable extent. In past have used soil surveys in studying financing of irrigation projects. Soil classification and surveys will play a big part in water resources work and use in future. Duty of water has increased to higher plane. In the future it will be necessary to allocate water on basis of kind of soil and crops that can be or will be grown on that soil.

#### Extension Service - Howard Cushman

Looking forward to typing and classification of experimental field trials. New type of soil survey maps more technical, opens up greater field in education on interpretation of maps with farmers.

#### Bureau of Indian Affairs - Semour B. Murray

Have been cooperating with SCS and Experiment Stations on soil surveys on Indian Reservations. At present, this is principally in the Klamath Reservation. There is a high priority need for good survey on 240,000 acres in this area by June 30, 1956. Plans for survey party being developed with SCS to start April 1.

#### U. S. Bureau of Public Roads - R. M. Schwegler

Primarily interested in engineering properties of soils. It will take lots of laboratory work to correlate soil maps with engineering needs. Need good interpretive studies.

#### Weyerhaeuser Timber Company - E. C. Steinbrenner

Interested in growing trees. Need forest soil surveys to help in regeneration work and to tie productivity in timber with soils. Have 3,000,000 acres of timber land and one soils man to work on soil problems.

#### Forest Service - Robert F. Tarrant

There are 14,000,000 acres of National Forest lands in Oregon. Need to know more about soils from engineering standpoint in road building, forest road drainage, timber site studies, and hydrological data. Information needed now for roadbuilders, timber, watershed, and range managers so they will know where to go. Interested in working with SCS on surveys of forest lands in Oregon to get information as rapidly as possible. Would like to see all of it in National Soil Survey system. At present, are working on reconnaissance survey of soils in National Forest land in Washington with Washington State College. Consists principally of surface geology, broad grouping of soil material, and topography mainly for engineering purposes. Needs correlation and interpretation for other purposes.





### III REPORTS ON NEEDS AND USES OF SOIL SURVEY INFORMATION (Cont'd.)

#### Crown Zellerbach - Ray Austin

At present not making soil surveys. Have been trouble shooting on problems related to tree management and road construction. At present having discussions and field reviews of soil surveys and their uses with SCS to explore possibilities of cooperative work.

#### State Board of Forestry - Jack Hann

Can use all the soil information they can get. Secons remarks by other forest interests and will support any idea proposed for obtaining information on forest soils.

#### State Tax Commission - Waldo Carlson

Assists and supervises assessors. Soil survey information used in property evaluation. Have developed certain ground rules relating land capability classification and productivity as standards. Come out with values for appraisal work. This with land ownership map of county is left with county assessor along with data on soils, etc., for use in appraisal work. Also interested in timber-site correlation work from standpoint of tax assessment of forest lands.

#### Oregon State Highway Department - W. C. Hill

There are five divisions in the State. Each division has a soils engineer or geologist. These men are furnished with soils maps of area as available. Have been instructed to work with Soil Scientists in their areas. Need research and information on engineering use and properties of soils, (1) particularly in respect to mineralogy and types of clays. Have trouble with Montmorillonite clays, less with Keolinite and illite which require less thickness of road base. (2) Need information on organic matter content of various soils (not by burning). (3) Soil identification by photogrammetry to locate aggregate, quarry sites, and soil delineations. (4) Information needed on erodability of soils, slopes and fills. (5) Want information as to what has been done and what information is available to their location. (6) Very definite correlation on 1000 samples checked by soil classes and shear tests.

#### Bureau of Land Management - Rodney O. Fety

Interested in growing right trees on right site. Prefer growing trees giving maximum returns. Need to know effect of harvesting factors on site quality. Is logging, road building, etc., lowering productivity. Need information on stability of soils in various watersheds.

#### U. S. Corps of Engineers - Howard Magnass

Principal need is soil interpretation. Evaluation of lands, generally alluvial soils, to be protected as to their productiveness and needed treatment such as drainage. Have job determining if lands to be protected are worth protecting, cost vs. benefits. Engineers interested in mechanical properties especially in construction of levees.



### III REPORTS ON NEEDS AND USES OF SOIL SURVEY INFORMATION (Cont'd.)

State Game Commission - Wayne Young

Make frequent use of soil survey information.

Farmers Home Administration - Kenneth Sawyer

There is need for more and better soil maps. FHA makes 200 to 400 appraisals each year. Soil maps are very useful for appraisal work and for conservation loan purposes.



IV CONFERENCE ATTENDANCE - Portland, Oregon, January 25, 1955

1. William W. Hill (Chairman), SCS, Portland.
2. Harold E. Tower, SCS, Portland
3. Robert L. Brown, SCS, Portland
4. Merritt V. Penwell, SCS, Portland
5. Irvin D. Nicholas, SCS, Portland
6. Clyde E. Deardorff, SCS, Portland
7. Paul E. Lemmon, SCS, Portland
8. Ray C. Roberts, SCS, Corvallis, Oregon
9. Rudy Mayko, SCS, Pendleton, Oregon
10. J. Melvin Williams, SCS, Albany, Oregon
11. Ellis G. Knox, Oregon State College, Corvallis
12. Howard Cushman, Oregon State College, Corvallis
13. Horace B. Cheney, Oregon State College, Corvallis
14. C. E. Poulton, Oregon State College, Corvallis
15. C. T. Youngberg, Oregon State College, Corvallis
16. O. V. Chenoweth, Bureau of Indian Affairs, Portland
17. Seymour B. Murray, Bureau of Indian Affairs, Portland
18. Vernon Lawrence, Bureau of Reclamation, Salem
19. R. M. Schwegler, U. S. Bureau of Public Roads, Portland
20. John F. Arnold, U. S. Forest Service, Div. of Engr., Portland
21. Robert F. Tarrant, Pacific N.W. For. Expt. Station, Portland
22. Rodney O. Fety, Bureau of Land Management, Salem
23. Wilfred Anderson, Fish and Wildlife Service, Portland
24. Howard N. Magness, Corps of Engineers, Portland
25. Wayne A. Young, Oregon State Game Commission, Portland



IV (Cont'd.)

26. George V. Naderman, State Engineer's Office, Salem
27. W. A. Hill, Oregon State Highway Commission, Salem.
28. Jack Hann, Oregon State Board of Forestry, Salem
29. Ralph Valentine, Oregon State Board of Forestry, Salem
30. R. L. Godim, State Tax Commission, Salem
31. Waldo E. Carlson, State Tax Commission, Salem
32. E. C. Steinbrenner, Weyerhaeuser Timber Company,  
Research Center, Centralia, Washington.
33. Ray C. Austin, Crown Zellerbach, Central Research Department,  
Camas, Washington.





V LIST OF SOIL CONSERVATION SERVICE OFFICE AND SOIL SCIENTISTS

Clatskanie, Oregon	Soil Conservationist Soil Scientist	Virgil R. Lance L. R. Piontkowski
McMinnville, Oregon	Soil Conservationist Soil Scientist Soil Scientist	Edgar C. Laird George E. Otte James C. Crane
St. Helens, Oregon	Soil Conservationist Soil Scientist	Leo D. Clark John P. Tribe
Pendleton, Oregon	Area Conservationist Soil Scientist (Supervisor) Soil Scientist	Fair C. Griffin Rudolph W. Mayko  Elmer L. Hill
Condon, Oregon	Soil Conservationist Soil Scientist	Louis L. Gilliam Burrell B. Lovell
Heppner, Oregon	Soil Conservationist Soil Scientist	Thomas I. Wilson Douglas G. Price
Hermiston, Oregon	Soil Conservationist Soil Scientist	Louis A. Parton Kenneth E. Johnson
Moro, Oregon	Soil Conservationist Soil Scientist	H. C. Grabenhorst John L. Paul
The Dalles, Oregon	Soil Scientist	Robert F. Mitchell
Baker, Oregon	Area Conservationist Soil Scientist	Richard T. Savage M. G. Lindsay
Enterprise, Oregon	Soil Conservationist Soil Scientist	Harry M. Wakefield L. M. Rasmussen
Albany, Oregon	Area Conservationist Soil Scientist (Supervisor)	H. J. Pavelek J. M. Williams
Mt. Angel, Oregon	Soil Conservationist Soil Scientist	M. L. Rigdon Truman W. Massee
Eugene, Oregon	Soil Conservationist Soil Scientist	John Denison C. R. Olds
Silverton, Oregon	Soil Conservationist Soil Scientist	F. W. Gurgurich D. C. Parker



V (Cont'd.)

Stayton, Oregon	Soil Conservationist Soil Scientist	H. H. Ralphs L. H. Williams
Klamath Falls, Oregon	Soil Conservationist Soil Scientist	John W. Berg L. E. Andrew
Lakeview, Oregon	Soil Conservationist Soil Scientist	H. L. Leithead K. E. Irons
Prineville, Oregon	Soil Scientist	G. K. Smith
Redmond, Oregon	Soil Conservationist Soil Scientist	T. W. Thorson H. W. Biggerstaff
Grants Pass, Oregon	Area Conservationist Soil Conservationist Soil Scientist	L. V. Davenport W. J. Cochran C. R. Buzzard
Gold Beach, Oregon	Soil Conservationist Soil Scientist	Ross K. Brown G. K. Brinneman
Medford, Oregon	Soil Conservationist Soil Scientist	C. H. Ault W. P. Badurina





